

# CULTURAL RESOURCES STUDY FOR THE 1270 ARROW HIGHWAY PROJECT

IRWINDALE, CALIFORNIA

APNs 8532-001-002, -006, and -900

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***Report Title:*** Cultural Resources Study for the 1270 Arrow Highway Project,  
Irwindale, California (APNs 8532-001-002, -006, and -900)

***Type of Study:*** Phase I Cultural Resources Study

***New Site(s):*** None

***Updated Site(s):*** None

***USGS Quadrangle:*** *Baldwin Park, California (7.5 minute)*

***Acreage:*** Approximately 79 acres

***Key Words:*** Archaeological study; negative; no impacts to cultural resources.

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## **MANAGEMENT SUMMARY/ABSTRACT**

In response to a request from the project applicant, a cultural resources study was conducted by Brian F. Smith and Associates, Inc. (BFSA) for the proposed 1270 Arrow Highway Project located in the western portion of the city of Irwindale, Los Angeles County, California. The approximately 79-acre project includes Assessor's Parcel Numbers (APNs) 8532-001-002, -006, and -900, and has historically been used as a gravel pit and for the sale of landscaping soil. The project's Area of Potential Effect (APE) now appears to mainly be utilized as a landfill for the disposal of soil, concrete, and other construction waste, which has filled some of the previously excavated gravel pits. The project is located at 1270 Arrow Highway and is bound on the east by Interstate 605 (I-605), on the north by Arrow Highway, and on the south by Live Oak Avenue. The location is further described as being within the former Rancho Azusa de Duarte Land Grant, Township 1 North, Range 11 West (projected) on the USGS *Baldwin Park, California* topographic quadrangle. The project proposes the development of the parcel for six industrial buildings with associated parking, landscaping, and infrastructure, which would be facilitated mainly through the filling-in of previously excavated pits to bring the elevation of the property to grade.

The purpose of this investigation was to locate and record any cultural resources present within the project and subsequently evaluate any resources as part of the City of Irwindale environmental review process conducted in compliance with the California Environmental Quality Act (CEQA). The cultural resources investigation included the review of an archaeological records search performed at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton (CSU Fullerton) in order to assess previous archaeological studies and identify any previously recorded archaeological sites within the APE or in the immediate vicinity. In addition, a Sacred Lands File (SLF) search was also requested from the Native American Heritage Commission (NAHC).

A review of the records search provided by the SCCIC indicated that no previously recorded resources are located within the subject property, while five resources have been recorded within a one-mile radius of the APE. Property research shows that the project has been heavily disturbed since the mid-twentieth century. Although originally a generally level property located within the San Gabriel River floodplain, today, elevations on the property fluctuate immensely from 410 to 260 feet above mean sea level (AMSL). Recently, it appears as though the use of the property for the disposal of construction material has filled-in some of the previously excavated gravel pits. As the APE mainly consists of a series of excavated pits and areas that have been filled with modern building material, almost all of the property's natural ground surface has been removed or heavily disturbed, with most of the property now far below the original floodplain elevation. The SLF search did not indicate the presence of Native American cultural resources within APE or the *Baldwin Park* quadrangle; however, the search did indicate the adjacent *El Monte* quadrangle is sensitive for resources. A list of Native

American contacts was provided by the NAHC.

Due to the disturbed nature of the property, with much of the original soil having been excavated and exported for sand and gravel operations, a field survey was deemed unnecessary. Given that disturbances to the property have likely removed any archaeological sites, features, or artifacts that could have possibly been located in the river floodplain, no potential impacts to cultural resources are associated with the proposed development of the project. The archaeological study was completed in accordance with the City of Irwindale environmental guidelines and CEQA significance evaluation criteria. Based upon the documentation of extensive past ground disturbance through the historic land-use of the property, the absence of recorded cultural resources within the project boundaries, and the limited number of known resources within the general area, there is little to no potential for cultural resources to be present/disturbed by the proposed project. Therefore, site-specific mitigation measures will not be required for this project, and no further archaeological study is recommended as a condition of permit approval.

A copy of this report will be permanently filed with the SCCIC at CSU Fullerton. All notes, photographs, and other materials related to this project will be curated at the archaeological laboratory of BFSA in Poway, California.

## 1.0 **INTRODUCTION**

### 1.1 **Project Description**

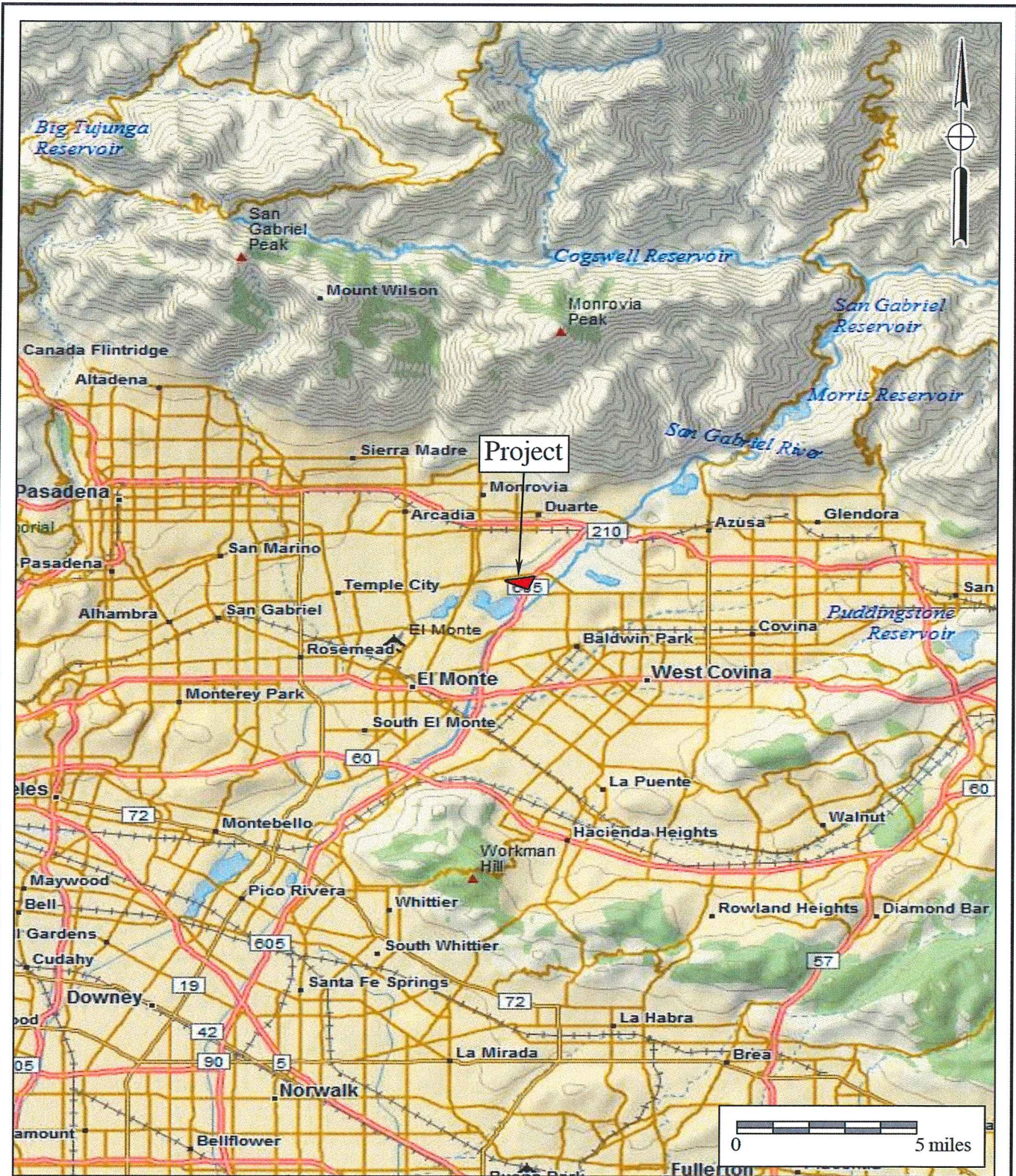
The archaeological study for the 1270 Arrow Highway Project was conducted in order to comply with CEQA and City of Irwindale environmental guidelines. The project is located within the San Gabriel Valley in the western portion of the city of Irwindale, Los Angeles County, California. The approximately 79-acre project includes APNs 8532-001-002, -006, and -900, which historically have been used as a gravel pit, a location for the sale of landscaping soil, and an area for the disposal of soil, concrete, and other construction waste. The triangular project is bound on the east by I-605, on the north by Arrow Highway, and on the south by Live Oak Avenue (Figure 1.1–1). The project location is further described as being within the former Rancho Azusa de Duarte Land Grant, Township 1 North, Range 11 West (projected) on the USGS *Baldwin Park, California* topographic quadrangle (Figure 1.1–2). The project proposes the development of the parcel for six industrial buildings with associated parking, landscaping, and infrastructure (Figure 1.1–3). As past disturbances to the property have left the APE mainly as a series of deep excavations associated with sand and gravel borrow pits, most of the parcel is well below the surrounding grade and much of the property will need to be filled-in to reach the project's proposed foundation elevations.

The APE for this project includes the entire approximate 79-acre property. The decision to request this investigation was based upon cultural resource sensitivity of the locality as suggested by known site density and predictive modeling. Sensitivity for cultural resources in a given area is usually indicated by known settlement patterns, which in the San Gabriel Valley of Los Angeles County were focused around fresh water resources and a food supply.

### 1.2 **Environmental Setting**

The 1270 Arrow Highway Project is generally situated in the Peninsular Ranges Geologic Province of southern California. The range, which lies in a northwest to southeast trend through the county, extends approximately 1,000 miles from the Raymond-Malibu Fault Zone in western Los Angeles County to the southern tip of Baja California. The subject property is located in the San Gabriel Valley, south of the San Gabriel Mountains and the mouth of the San Gabriel Canyon. The San Gabriel River currently lies less than one-half mile from the western boundary of the APE, while the 1933 and 1939 7.5-minute *Azusa* topographic maps show the project originally within the San Gabriel River floodplain. Geologically, Dibblee and Ehrenspeck map the area as (Qg), “gravel and sand of major streams, and alluvial fan detritus from San Gabriel Mountains, grades southward into alluvium (Qa) as sizes of clasts decrease” (1999).

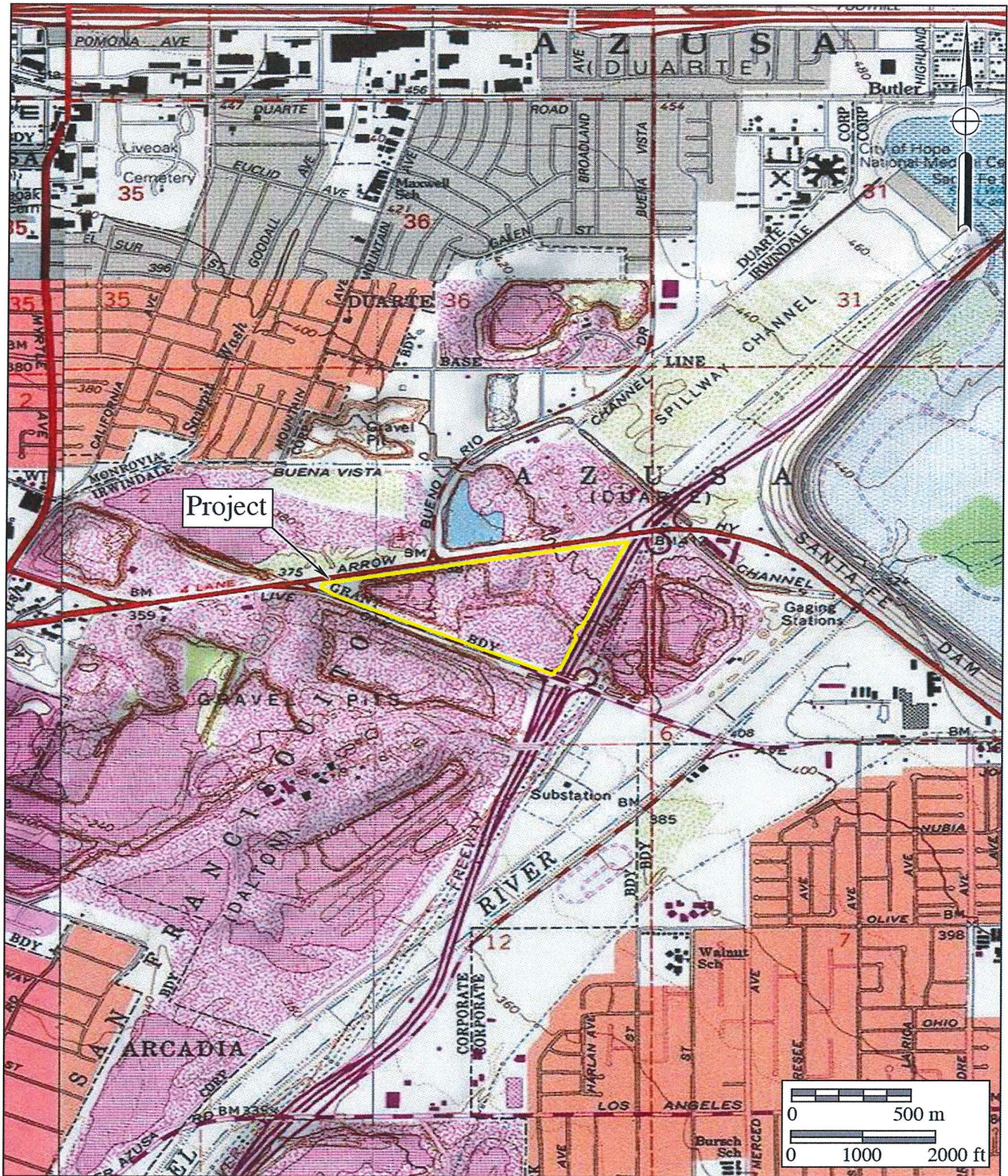




**Figure 1.1-1**  
**General Location Map**  
 The 1270 Arrow Highway Project  
 DeLorme (1:250,000 series)







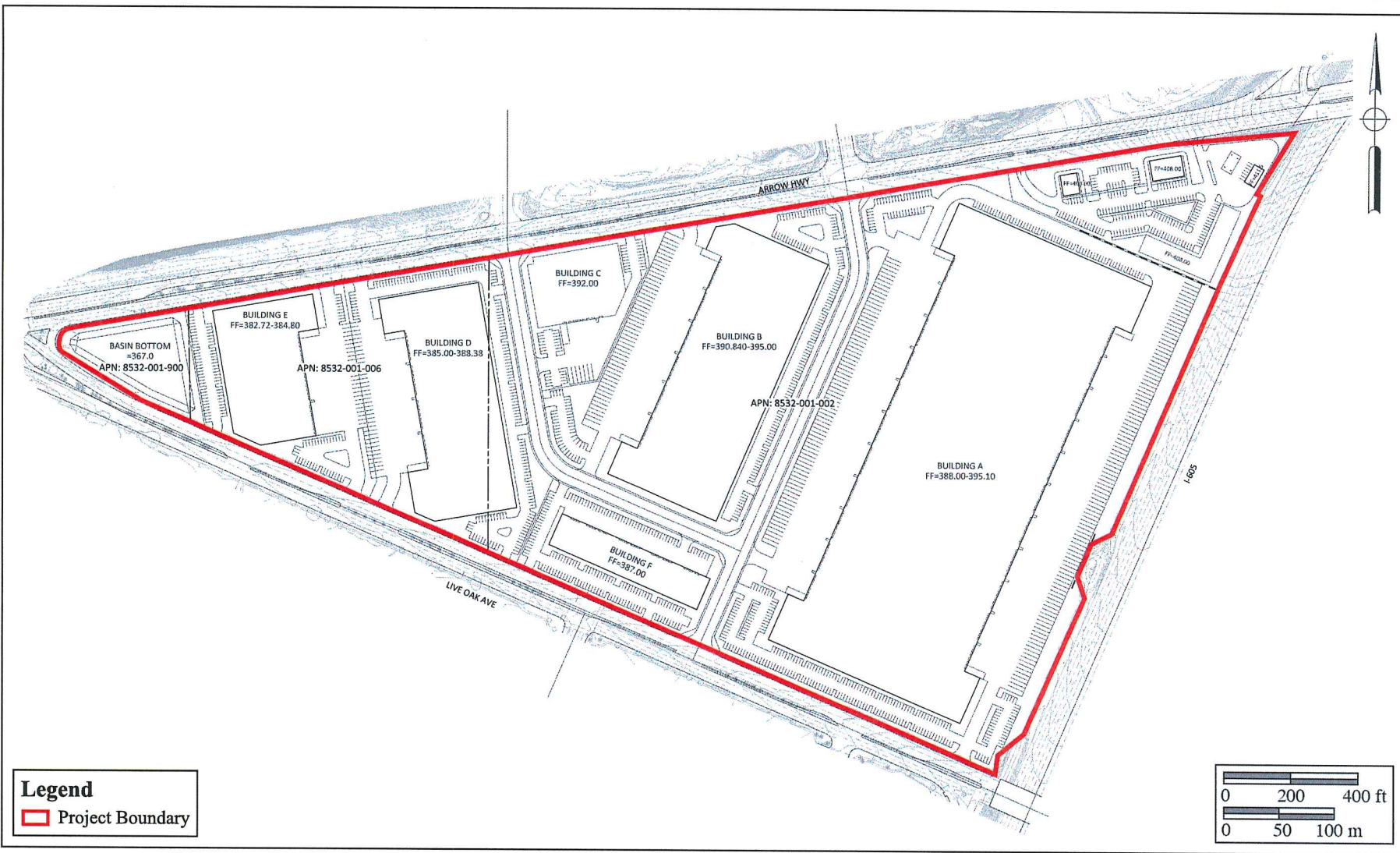
**Figure 1.1-2**  
**Project Location Map**

The 1270 Arrow Highway Project

USGS Mount Wilson, Azusa, El Monte, and Baldwin Park Quadrangles (7.5-minute series)







**Legend**  
Project Boundary

0 200 400 ft  
0 50 100 m



**Figure 1.1-3**  
**Project Development Map**  
The 1270 Arrow Highway Project

The project has been disturbed since the mid-twentieth century by sand and gravel operations. The APE consists of a series of large excavated pits of varying depth surrounded by generally level ground along the perimeter of the property. Large piles of soil and aggregate are dispersed along the bottom of the pits. Elevations range from approximately 410 to 380 feet AMSL around the perimeter, with elevations in the excavated pits as low as 260 feet AMSL. Cal Blend Soils, Inc. has occupied a portion of the property for nearly 30 years, selling topsoil, compost, soil mixes, mulch, and decomposed granite. Cal Blend Soils, Inc. still appears to operate out of the northeast corner of the APE; however, currently Arcadia Reclamation, Inc. and Nu Way Arrow Reclamation encompass the majority of the property, operating as a landfill for the disposal of brick, block, rock, rebar, stucco, and reinforced concrete pipe. The surrounding area has traditionally been used for industrial purposes, mainly gravel pits for the collection and sale of aggregate material, although land-use to the northwest and southeast of the APE is mixed, having some industrial, residential, and recreational properties.

### **1.3 Cultural Setting**

#### *1.3.1 Prehistoric Period*

Several prehistoric cultural chronologies have been proposed for the southern California coast and nearby inland areas, such as two of the most frequently cited sequences developed by William Wallace (1955) and Claude Warren (1968). Such chronologies provide a framework to discuss archaeological data in relation to broad cultural changes seen in the archaeological record. The chronological sequence presented herein represents an updated synthesis of these schemes for Los Angeles County and surrounding regions. The prehistoric sequence of the area can be divided into four broad temporal categories. It should be noted that the prehistoric chronology for the region is being refined on a continuing basis, with new discoveries and improvements being made in the accuracy of dating techniques.

#### *Terminal Pleistocene and Early Holocene: Paleo-Coastal Period (circa 9500 to 7000/6500 B.C.)*

Although data on early human occupation for the southern California coast is limited, archaeological evidence from the northern Channel Islands suggests initial settlement within the region occurred at least 12,000 years before the present (YBP). At Daisy Cave (SMI-261) on San Miguel Island, radiocarbon dates indicate an early period of use in the terminal Pleistocene, sometime between 9600 and 9000 calibrated (cal) B.C. (Erlandson et al. 1996). Nearby on Santa Rosa Island, human remains from the Arlington Springs Site (SRI-1730) have been dated between 11,000 and 10,000 cal B.C. (Johnson et al. 2002). Archaeological data recovered from these and other coastal Paleo Indian sites indicate a distinctively maritime cultural adaptation, termed the “Paleo-Coastal Tradition” (Moratto 1984), which involved the use of seafaring technology and a subsistence regime focused upon shellfish gathering and fishing (Rick et al. 2001).

Relatively few sites have been identified in Los Angeles County that date to the terminal

Pleistocene and early Holocene. Evidence of possible early human occupation has been found at the sand dune bluff site of Malaga Cove (LAN-138), located between Redondo Beach and Palos Verdes (Walker 1951). Researchers have proposed that archaeological remains recovered from the lowermost cultural stratum at the site, including shell, animal bone, and chipped stone tools, may date to as early as 8000 cal B.C. (Moratto 1984:168; Wallace 1986).

*Middle Holocene: Milling Stone Period (circa 7000/6500 to 1500/1000 B.C.)*

The Milling Stone Period or Horizon, also referred to as the “Encinitas Tradition,” is the earliest well-established cultural occupation of the coastal areas of the region (Sutton 2010; Sutton and Gardner 2010). The onset of this period, which began sometime between 7000 and 6500 cal B.C., is marked by the expansion of populations throughout southern California. Regional variations in technology, settlement patterns, and mortuary practices among Milling Stone sites have led researchers to define several local manifestations or “patterns” of the tradition (Sutton and Gardner 2010). Groups that occupied modern-day Los Angeles County are thought to have been relatively small and highly mobile during this time, with a general subsistence economy focused upon the gathering of shellfish and plant foods, particularly hard seeds, with hunting being of less importance (Glassow et al. 2007).

Two temporal subdivisions have been defined for the portion of the Topanga Pattern falling within the Milling Stone Period: Topanga I (circa 6500 to 3000 B.C.) and Topanga II (circa 3000 to 1000 B.C.) (Sutton and Gardner 2010). Topanga I assemblages are characterized by abundant manos and metates, core tools and scrapers, charmstones, cogged stone, and discoidals. Projectile points are quite rare, with those present resembling earlier, large, leaf-shaped forms (Glassow et al. 2007). Secondary inhumations with associated cairns are the most common burial form at Milling Stone sites, with small numbers of identified extended inhumations. The subsequent Topanga II phase largely represents a continuation of the Topanga pattern with site assemblages characterized by numerous manos and metates, charmstones, cogged stones, discoidals, and some stone balls. A significant technological change in ground stone occurs at this time, with the appearance of mortars and pestles at Topanga II sites suggesting the adoption of balanophagy by coastal populations (Sutton and Gardner 2010). The quantity of projectile points also notably increases in Topanga II site deposits, indicating that the hunting of large game may have played a greater role in the subsistence economy than in earlier times. While secondary burials continue to be quite common, a few flexed inhumations have also been recovered from archaeological contexts dating to the Topanga II phase.

A number of Milling Stone sites have been identified in Los Angeles County. The lower component of the Tank Site (LAN-1), located in the Santa Monica Mountains, was excavated in the 1940s and was determined to be Topanga I in age. In the San Fernando Valley, the Encino Site (LAN-111) is thought to have contained a Topanga I component. The artifact assemblage is definitive of the Topanga I period, containing many milling implements, but few projectile points. The presence of mortars and pestles along with stemmed projectile points at the

Chatsworth Site (LAN-21), located at the western edge of the San Fernando Valley, suggests a Topanga II presence. The Big Tujunga Wash Site (LAN-167), located at the eastern edge of the San Fernando Valley, may have also contained a Topanga II component (Sutton and Gardner 2010).

Late Holocene: Intermediate Period (1500/1000 B.C. to A.D. 750)

The Intermediate Period, which encompasses the early portion of the “Del Rey Tradition,” as defined by Sutton (Sutton 2010), begins around 3,500 YBP. At this time, significant changes are seen throughout the coastal areas of southern California in material culture, settlement systems, subsistence strategies, and mortuary practices. These new cultural traits have been attributed to the arrival of Takic-speaking people from the southern San Joaquin Valley (Sutton 2009). Biological, archaeological, and linguistic data indicates that the Takic groups who settled in the Los Angeles Basin were ethnically distinct from the preexisting Hokan-speaking Topanga populations, and are believed to be ancestral to ethnographic Gabrielino groups (Sutton 2009). While archaeological evidence indicates that “relic” Topanga III populations continued to survive in isolation in the Santa Monica Mountains, these indigenous groups appear to have been largely replaced or absorbed by the Gabrielino, or Chumash, by 2,000 YBP (Sutton and Gardner 2010:17).

Intermediate Period sites in the region are represented by the “Angeles Pattern” of the Del Rey Tradition (Sutton 2010). Three temporal subdivisions have been defined for the portion of the Angeles Pattern that falls within the Intermediate Period: Angeles I (1500 to 600 B.C.), Angeles II (600 B.C. to A.D. 400), and Angeles III (A.D. 400 to 750) (Sutton and Gardner 2010:8). The onset of the Angeles I phase is characterized by the increase and aggregation of regional populations and the appearance of the first village settlements. The prevalence of projectile points, single-piece shell fishhooks, and bone harpoon points at Angeles I sites suggests a subsistence shift in the Intermediate Period, an increased emphasis on fishing and terrestrial hunting, and less reliance upon the gathering of shellfish resources. Regional trade or interaction networks also appeared to develop at this time, with coastal populations in Los Angeles County obtaining small steatite artifacts and *Olivella* sp. shell beads from the southern Channel Islands and obsidian from the Coso Volcanic Field (Koerper et al. 2002). Finally, marked changes are seen in mortuary practices during the Angeles I phase with flexed primary inhumations and cremations replacing extended inhumations and cairns.

The Angeles II phase largely represents a continuation and elaboration of the Angeles I technology, settlement, and subsistence systems. One exception to this pattern is the introduction of a new funerary complex around 2,600 YBP, consisting of large rock cairns or platforms, which contain abundant broken tools, faunal remains, and cremated human bone. These mortuary features have generally been thought to represent the predecessor of the Southern California Mourning Ceremony (Sutton 2010:14).

Several important changes in the archaeological record mark the beginning of the



Angeles III phase. At this time, larger seasonal villages characterized by well-developed middens and cemeteries were established along the coast or the inland areas. Archaeological data from Angeles III sites indicates that residents of these settlements practiced a fairly diverse subsistence strategy, which included the exploitation of both marine and terrestrial resources (Sutton 2010:16). Notable technological changes at this time included the introduction of the plank canoe and the bow and arrow (Glassow et al. 2007:203-204). The appearance of new *Olivella* sp. bead types at Angeles III sites indicates a reconfiguration of existing regional exchange networks with increased interaction with populations in the Gulf of California (Koerper et al. 2002). Finally, cremations increase slightly in frequency at this time, with inhumations no longer placed in an extended position (Sutton 2010:18). Intermediate Period sites in Los Angeles County include LAN-2 and LAN-197, which are located in the Santa Monica Mountains. The formal cemeteries at these sites are representative of the increased sedentism that occurred during the Intermediate Period (Glassow et al. 2007:202).

#### Late Holocene: Late Period (A.D. 750 to Spanish Contact)

The Late Period dates from approximately A.D. 750 until Spanish contact in 1542. Sutton (2010) has divided this period, which falls within the larger Del Rey Tradition, into two phases: Angeles IV (A.D. 750 to 1200) and Angeles V (A.D. 1200 to 1550). The Angeles IV phase is characterized by the continued growth of regional populations and the development of large, sedentary villages. Although chiefdoms appear to have developed in the northern Channel Islands and the Santa Barbara region after 850 YBP (Arnold 1992; Gamble 2005), little direct evidence has been found to suggest that this level of social complexity existed in the Los Angeles area during the Late Prehistoric Period (Sutton 2010).

Several new types of material culture appear during the Angeles IV phase, including Cottonwood series points, birdstone and “spike” effigies, *Olivella* sp. cupped beads, and *Mytilus* sp. shell disc beads. The presence of southwestern pottery, Patayan ceramic figurines, and Hohokam shell bracelets at Angeles IV sites suggests some interaction between groups in southern California and the Southwest. Notable changes are seen in regional exchange networks after 800 YBP, with an increase in the number and size of steatite artifacts, including large vessels, elaborate effigies, and comals (cooking dishes) recovered from Angeles V sites. The presence of these artifacts suggests a strengthening of trade ties between coastal Los Angeles populations and the southern Channel Islands (Koerper et al. 2002:69). Finally, Late Period mortuary practices remain largely unchanged from the Intermediate Period, with flexed primary inhumations continuing to be the preferred burial method.

Late Period sites in Los Angeles County include LAN-227 and LAN-229, which are located in the Santa Monica Mountains. Both sites contain fewer manos and metates than earlier sites, but more mortars, pestles, projectile points, drills, beads, pipes, and bone tools (Moratto 1984:141). Although these sites represent a move toward centralized sedentary villages during this period, it is unclear whether they represent year-round occupation or semi-permanent

villages used as base settlements (Glassow et al. 2007:210).

Late Holocene / Protohistoric Period / The Gabrieliño (1769 to Present)

During the late Holocene, population size and density increased dramatically, calling for an even more diversified economy (Altschul and Grenda 2002). Ethnographic data, the first of which came from Spanish explorers and missionaries, indicates that the Gabrieliño (Tongva) were the major tribe established within the San Gabriel Valley. The Spanish attributed this name to the Native Americans in the area served by the Mission San Gabriel Archángel. Gabrieliño territory included the watersheds of the San Gabriel, Santa Ana, and Los Angeles rivers, portions of the Santa Monica and Santa Ana mountains, the Los Angeles Basin, the coast from Aliso Creek to Topanga Creek, and San Clemente, San Nicolas, and Santa Catalina islands (Moratto 1984). The Gabrieliño spoke a Cupan language that was part of the Shoshonean or Takic family of Uto-Aztecan linguistic stock; these linguistic ties united a dispersed ethnic group occupying 1,500 square miles in the Los Angeles Basin region (Altschul and Grenda 2002). Interestingly, this language stock was different from that of the Chumash to the north in the Santa Barbara region, as well as from the Kumeyaay (Tipai and Ipai) in the San Diego region, both of which spoke languages of the Hokan stock, using different dialects.

Ethnographic data states that the Gabrieliño were hunters and gatherers whose food sources included acorns, seeds, marine mollusks, fish, and mammals; archaeological sites support this data, with evidence of hunting, gathering, processing, and storage implements including arrow points, fishhooks, scrapers, grinding stones, and basketry awls (Altschul and Grenda 2002). Santa Catalina Island provided a valuable source of steatite for the Gabrieliño, which they quarried and traded to other groups (Heizer and Treganza 1972; Moratto 1984). About 50 to 100 permanent villages are estimated to have been in existence at the time of European contact, most of which were located along lowland rivers and streams, and along sheltered areas of the coast (Moratto 1984). Smaller satellite villages and resource extraction sites were located between larger villages. Village sites contained varying types of structures, including houses, sweatshops, and ceremonial huts (Bean and Smith 1978). Artistic items included shell set in asphaltum, carvings, painting, steatite, and baskets (Moratto 1984). Settlements were often located at the intersection of two or more ecozones, thus increasing the variety of resources that were immediately accessible (Moratto 1984). Offshore fishing and hunting was accomplished with the use of plank boats, while shellfish and birds were collected along the coast. At the time of European contact, the Gabrieliño, second only to the Chumash, were the wealthiest, most populous, and most powerful ethnic group in southern California (Bean and Smith 1978; Moratto 1984).

As with other Native American populations in southern California, the arrival of the Spanish drastically changed life for the Gabrieliño. Incorporation into the mission system disrupted their culture and changed their subsistence practices (Altschul and Grenda 2002). Ranchos were established throughout the area, often in major drainages where Native American

villages tended to be located. By the early 1800s, Mission San Gabriel had expanded its holdings for grazing to include much of the former Gabrieliño territory (Altschul and Grenda 2002). Eventually, widespread relocation of Native American groups occurred, resulting in further disruption of the native lifeways. Together with the introduction of Euro-American diseases, the Gabrieliño and other groups of southern California experienced drastic population declines; in the early 1860s, a smallpox epidemic nearly wiped out the remaining Gabrieliño population (Moratto 1984). While people of Gabrieliño descent still live in the Los Angeles area, the Gabrieliño were no longer listed as a culturally identifiable group in the 1900 Federal Census (Bean and Smith 1978; Moratto 1984).

### *1.3.2 Historic Period*

The historic background of the project area began with the Spanish colonization of Alta California. The first Spanish colonizing expedition reached southern California in 1769 with the intention of converting and civilizing the indigenous populations, as well as expanding the knowledge of and access to new resources in the region (Brigandi 1998). In the late eighteenth century, the San Gabriel (Los Angeles County), San Juan Capistrano (Orange County), and San Luis Rey (San Diego County) missions began colonizing southern California, gradually expanding their use of the interior valley (into what is now western Riverside County) for raising grain and cattle to support the missions (Riverside County n.d.). The San Gabriel Mission claimed lands in what is now Jurupa, Riverside, San Jacinto, and the San Gorgonio Pass, while the San Luis Rey Mission claimed land in what is now Lake Elsinore, Temecula, and Murrieta (American Local History Network: Riverside County, California 1998). The indigenous groups who occupied these lands were recruited by missionaries, converted, and put to work in the missions (Pourade 1964). Throughout this period, the Native American populations were decimated by introduced diseases, a drastic shift in diet resulting in poor nutrition, and social conflicts due to the introduction of an entirely new social order (Cook 1976).

On September 8, 1771, Father Pedro Cambón and Father Angel Somera established the Mission San Gabriel de Arcángel near the present-day city of Montebello. In 1775, the mission was moved to its current location in San Gabriel due to better agricultural lands. This mission marked the first sustained European occupation of the Los Angeles County area. Mission San Gabriel, despite a slow start, partially due to misconduct by Spanish soldiers, eventually became so prosperous that it was known as “The Queen of the Missions” (Johnson et al. 1972).

The pueblo that eventually became the city of Los Angeles was established in 1781. During this period, Spain also deeded ranchos to prominent citizens and soldiers (though very few in comparison to the later Mexican Period). One such rancho, Rancho San Pedro, was deeded to soldier Juan Jose Dominguez in 1784 and comprised 75,000 acres, encompassing the modern South Bay region from the Los Angeles River on the east to the Pacific Ocean on the west.

The area that became Los Angeles County saw an increase in European settlement during

the Mexican Period, largely due to the many land grants (ranchos) to Mexican citizens by various governors. The period ended in early January of 1847, when Mexican forces fought the combined United States Army and Navy forces in the Battle of the San Gabriel River on January 8, 1847 and the Battle of La Mesa on January 9, 1847 (Nevin 1978). On January 10, 1847, leaders of the pueblo of Los Angeles surrendered peacefully after Mexican General Jose Maria Flores withdrew his forces. Shortly thereafter, newly appointed Mexican Military Commander of California, Andrés Pico, surrendered all of Alta California to United States Army Lieutenant Colonel John C. Fremont in the Treaty of Cahuenga (Nevin 1978).

Settlement of the Los Angeles region accelerated during the early American Period. The county was established on February 18, 1850. It was one of 27 counties established in the months prior to California becoming a state. Many ranchos in the county were sold or otherwise acquired by Americans, and most were subdivided into agricultural parcels or towns. Nonetheless, ranching retained its importance, and by the late 1860s, Los Angeles was one of the top dairy production centers in the country (Rolle 1963). In 1854, the United States Congress agreed to let San Pedro become an official port of entry, and by the 1880s, the railroads had established networks throughout the county, resulting in fast and affordable shipment of goods, as well as a means to transport new residents to the booming region (Dumke 1944). New residents included many health-seekers drawn to the area by the fabled climate in the 1870s to the 1880s (Baur 1959). In 1876, the county had a population of 30,000 (Dumke 1944:7); by 1900, it had reached 100,000.

In the early to mid-1900s, population growth accelerated due to industry that was associated with both world wars, as well as emigration from the Midwest “dust bowl” states during the Great Depression. The county became one of the most densely occupied areas in the United States. The county’s mild climate and successful economy continued to draw new residents in the late 1900s, and much of the county transformed from ranches and farms into residential subdivisions surrounding commercial and industrial centers. Hollywood’s development into the entertainment capital of the world and southern California’s booming aerospace industry were key factors in the county’s growth.

### General History of the Irwindale Area

The present-day area encompassing Irwindale was originally part of the Mexican land grants of Rancho La Puente, Rancho Azusa de Dalton, Rancho Azusa de Duarte, and Rancho San Francisquito. The area was first settled by the families of Gregorio Fraijo and Fecundo Ayon in the 1850s (City of Irwindale 2017). Both Fraijo and Ayon had come to California from Mexico in search of gold (Diaz 2005). Fraijo had approximately 100 acres of land almost three miles east of the APE, near the present-day intersection of Arrow Highway and Irwindale Avenue. Water from the San Gabriel River aided in the cultivation of corn; however, the land was deemed unsuitable for orchards or cattle grazing (Petersen 2016).

Although founded in 1871, the town did not get a permanent name until the late

nineteenth century (Diaz 2005). The town was known by a variety of names including Sonora Town, Cactus Town, Spanish Town, and Jackrabbit Town, with Irwindale first being applied to the area in the 1890s (Petersen 2016). It is unclear exactly how the area got the Irwindale name; however, by the early twentieth century the moniker had gained widespread use (Peterson 2016).

During the early and mid-twentieth century, the rapid development of Los Angeles and the southern California freeway system created a need for quality construction aggregate. As Irwindale contains some of the highest levels of quality and quantity of aggregate resources in all of Southern California, gravel pits were started throughout the town in the early twentieth century (Petersen 2016). The first commercial-scale aggregate production sites began operating out of Irwindale in 1900. Railroad lines were built to ship material throughout the region. Irwindale's rocks and gravel were used to construct many well-known Los Angeles structures, including City Hall, the Biltmore Hotel, the Los Angeles Memorial Coliseum, Union Station, Dodger Stadium, the Bonaventure Hotel, and the Los Angeles Convention Center Hotel (Petersen 2016). An increase in population and traffic during the mid-twentieth century facilitated the need for better roads, and Irwindale's rock and gravel was used in the construction of the area's highways.

Irwindale was incorporated in 1957. Neighboring cities were attempting to annex Irwindale in an effort to gain a considerable source of tax revenue created by the mining operations. Local wealthy and powerful mine owners pushed for incorporation to avoid the possibility of potentially higher taxes (Petersen 2016).

In the later part of the twentieth century, the city began looking for ways to repurpose abandoned gravel pits. Many pits were abandoned after being excavated to the permitted depth of 200 feet. In 1987, one idea set forth to monetize the pits was to build a stadium in a bid for the Los Angeles Raiders football team. This, however, proved to be unsuccessful (Petersen 2016). Although Irwindale failed to persuade the Raiders to move to the city, in 1999 the Irwindale Speedway, just south of the APE, opened up atop a former gravel pit similar to the current project, which had been filled in with old tires. Other former gravel pits have been converted as well, including the two million square foot Irwindale Business Center (Petersen 2016). Although Irwindale continues to look for ways to diversify the city's industry, mining of gravel pits remains a vital part of the city's economy today.

#### **1.4 Results of the Archaeological Records Search**

An archaeological records search for the project and the surrounding area within a one-mile radius was conducted by the SCCIC at CSU Fullerton. The records search for the project did not identify any previously recorded cultural resources within the 1270 Arrow Highway Project. The records search did identify five cultural resources located within a one-mile radius of the project, which include: a historic archaeological site including foundations, a water conveyance system, and a trash scatter; three historic transmission lines including the National Register of Historic Places (NRHP) eligible Boulder Dam-Los Angeles 287.5 kV transmission



line; and a historic religious building. Brief descriptions of the five sites located within a one-mile radius are provided in Table 1.4–1 and the complete records search results are provided in Appendix B.

**Table 1.4–1**  
Cultural Resources Located Within  
One Mile of the 1270 Arrow Highway Project

Site(s)	Description
LAN-4119	Historic foundations with associated water conveyance system and trash scatter.
P-19-186876	SCE Eagle Rock-Pardee & Antelope-Vincent No.1 220kV transmission line
P-19-188983	Boulder Dam-Los Angeles 287.5 kV transmission line
P-19-19506	Southern California Edison Company Rio Hondo-Bradbury 66kV transmission line
P-19-190065	Historic religious building

The records search also indicates that 23 cultural resource studies have been conducted within a one-mile radius of the project. The SCCIC indicates two of the 23 studies include portions of the APE. Nevertheless, both of these studies identified by the SCCIC are actually located just adjacent to the current project. One is a survey report for the rehabilitation of pavement along I-605 (Smith and Siro 2000) while the second is a study conducted for the construction of wheelchair ramps at adjacent intersections (Storey 2001).

**Table 1.4–2**  
Previous Studies Conducted Within  
One Mile of the 1270 Arrow Highway Project

Anonymous

- 1995 Cultural Resources Report for the Baldwin Park Operable Unit Water Delivery Plan. Greenwood and Associates. Unpublished report on file at the South Central Coastal Information Center at California State University, Fullerton, Fullerton, California.

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Greenberg, Marc

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Panich, Lee and Holson, John

- 2010 Supplemental Archaeological Survey Report, 66KV Transmission Lines Access Roads, Tehachapi Renewable Transmission Project Segments 7 and 8, Los Angeles and San Bernardino Counties, California. Pacific Legacy. Unpublished report on file at the South Central Coastal Information Center at California State University, Fullerton, Fullerton, California.

Rosen, Martin D.

- 1974 Evaluation of the Resources and Potential Impact of Proposed Extension of Merced Avenue and Olive Street, City of Baldwin Park. University of California, Los Angeles Archaeological Survey. Unpublished report on file at the South Central Coastal Information Center at California State University, Fullerton, Fullerton, California.
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Schmidt, June A.

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Singer, Clay A.

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Smith, Philomene and Adam Sriro

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Storey, Noelle

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Live Oak Avenue and Arrow Highway Along Route 605 in the City of Irwindale, Los Angeles County. Caltrans District 7. Unpublished report on file at the South Central Coastal Information Center at California State University, Fullerton, Fullerton, California.

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Wetherbee, Matthew, Thomas Jackson, and Wendy Tinsley-Becker

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Wlodarski, Robert

2012 SV0018- Calvary Grace Church, 2520 Peck Road Monrovia, CA. CARE. Unpublished report on file at the South Central Coastal Information Center at California State University, Fullerton, Fullerton, California.

The SCCIC search also reviewed the following historic sources:

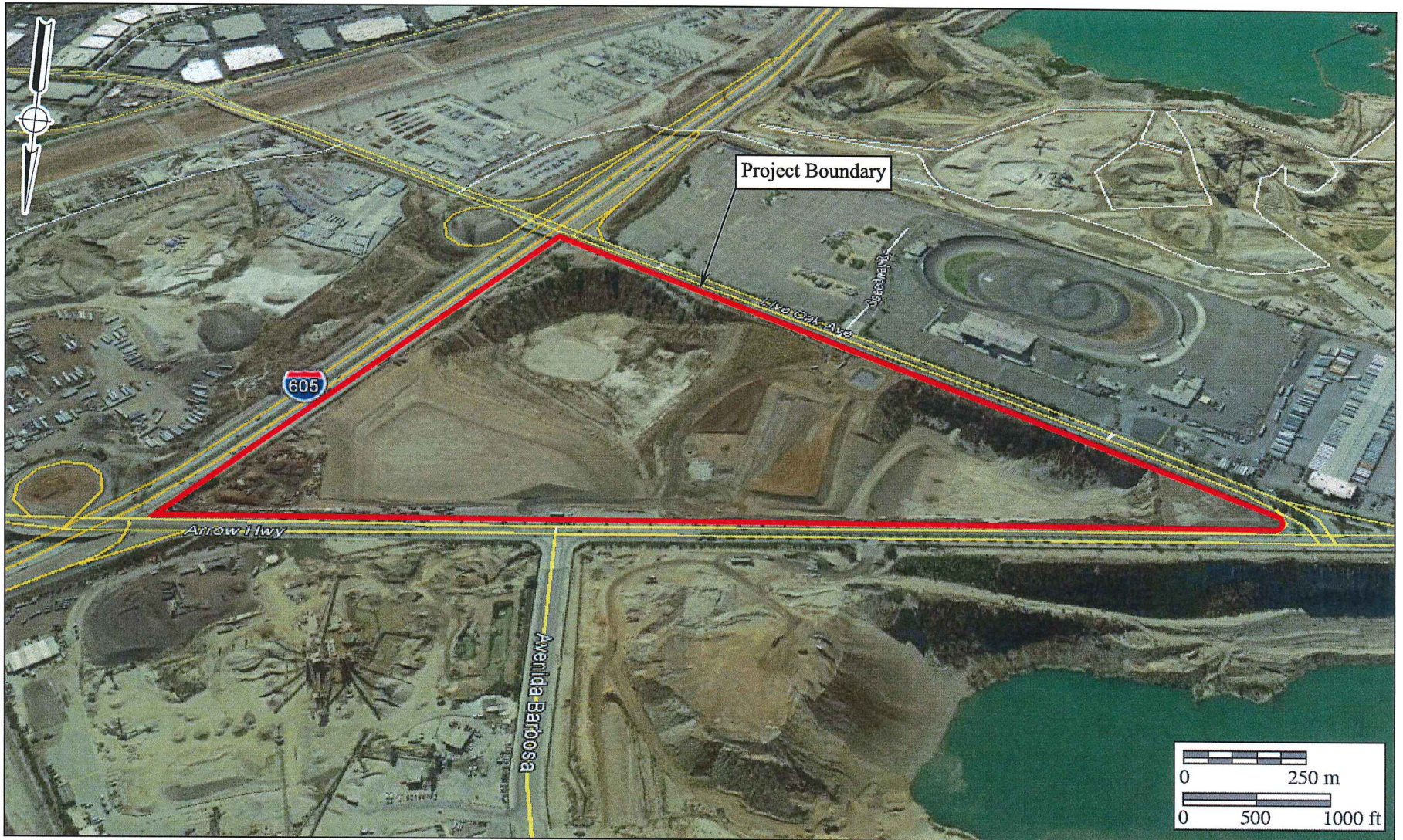
- The NRHP Index
- The Office of Historic Preservation (OHP), Archaeological Determinations of Eligibility
- The OHP, Directory of Properties in the Historic Property Data File (HPD)

These additional sources did not identify any cultural resources within the APE. In-house research of historic maps and aerial photographs was also conducted for the project.

The 1933 and 1939 7.5-minute *Azusa* topographic maps show the project as part of the San Gabriel River floodplain and undisturbed, generally level ground with elevations between 400 and 390 feet AMSL. No disturbances are visible on aerial photographs from 1948 and 1952; however, gravel pits are visible within the vicinity of the project. The 1964 aerial photograph shows disturbance to the APE characterized as deep cuts and large mounds of soil. Subsequent aerial photographs show increasing cuts and excavations.

The 1982 7.5-minute *Baldwin Park* topographic map labels the project as a gravel pit, while the 1994 aerial photograph shows the project as two large excavated pits; the larger pit filled with water. Aerial photographs from 2000 onward show increases in disturbances as the pits were expanded throughout the property. Current aerials and maps available from Google Earth show a difference between the current elevations of the APE and those visible on maps and aerial photographs from the first half of the twentieth century (Figure 1.4–1).





**Figure 1.4-1**  
**Excavated Gravel Pits Showing Disturbances Within the Project APE**

The 1270 Arrow Highway Project

*(Imagery courtesy of Google Earth, 2016)*





Today, elevations on the property fluctuate immensely from 410 to 260 feet AMSL; however, some of the large pits appear to have been filled-in with landfill waste as the property has been utilized by Arcadia Reclamation, Inc. and Nu Way Arrow Reclamation for the disposal of construction material (Figure 1.4-2). As the APE mainly consists of a series of excavated pits, almost all of the property's natural ground surface has been removed or heavily disturbed and now rests far below the original floodplain elevation.

BFSA also requested a records search of the SLF of the NAHC. Although the 1270 Arrow Highway APE is located on the *Baldwin Park* quadrangle, the search indicated the presence of Native American cultural resources within the adjacent *El Monte* quadrangle that may be impacted by the current project.

The records search and literature review suggest that there is almost no potential for prehistoric sites or historic sites to be contained within the boundaries of the project due to the extensive nature of past ground disturbances on the property. Although cultural resources are present within a one-mile radius of the project, they are mostly associated with historic transmission lines and none are prehistoric sites. The location of the APE, originally within the San Gabriel River floodplain, combined with the extensive disturbance to the property, strongly indicates that if cultural resources were ever located within the project they have been removed through the continued excavations on the property. Given the historic and prehistoric settlement of the region, disturbances to the property, and the low frequency of cultural resources known to be surrounding the project APE, the potential for archaeological discoveries on the property is extremely low. Due to the disturbed nature of the property, with much of the original soil having been excavated for gravel pit operations, and that development of the project mainly consists of infilling the large excavated pits, a field survey was deemed unnecessary for the project.





**Figure 1.4-2**

**Excavated Gravel Pits Showing Disturbances Within the Project APE**

The 1270 Arrow Highway Project

*(Imagery courtesy of Google Earth, 2018)*





## 1.5 Applicable Regulations

Resource importance is assigned to districts, sites, buildings, structures, and objects that possess exceptional value or quality illustrating or interpreting the heritage of Los Angeles County in history, architecture, archaeology, engineering, and culture. A number of criteria are used in demonstrating resource importance. Specifically, the criteria outlined in CEQA provides the guidance for making such a determination. The following sections detail the criteria that a resource must meet in order to be determined important.

### *1.5.1 California Environmental Quality Act*

According to CEQA (§15064.5a), the term “historical resource” includes the following:

- 1) A resource listed in, or determined to be eligible by the State Historical Resources Commission for listing in the California Register of Historical Resources (CRHR) (Public Resources Code [PRC] SS5024.1, Title 14 CCR. Section 4850 et seq.).
- 2) A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the PRC or identified as significant in an historical resource survey meeting the requirements of Section 5024.1(g) of the PRC, shall be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant.
- 3) Any object, building, structure, site, area, place, record, or manuscript, which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be an historical resource, provided the lead agency’s determination is supported by substantial evidence in light of the whole record. Generally, a resource shall be considered by the lead agency to be “historically significant” if the resource meets the criteria for listing on the CRHR (PRC SS5024.1, Title 14, Section 4852) including the following:
  - a) Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage;
  - b) Is associated with the lives of persons important in our past;
  - c) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
  - d) Has yielded, or may be likely to yield, information important in prehistory or history.
- 4) The fact that a resource is not listed on, or determined eligible for listing on, the

CRHR, not included in a local register of historical resources (pursuant to Section 5020.1(k) of the PRC), or identified in an historical resources survey (meeting the criteria in Section 5024.1(g) of the PRC) does not preclude a lead agency from determining that the resource may be an historical resource as defined in PRC Section 5020.1(j) or 5024.1.

According to CEQA (§15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change as:

- 1) Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.
- 2) The significance of an historical resource is materially impaired when a project:
  - a) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion on, or eligibility for inclusion on, the CRHR; or
  - b) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or,
  - c) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

1. When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).
2. If a lead agency determines that the archaeological site is an historical resource, it shall refer to the provisions of Section 21084.1 of the PRC, Section 15126.4 of the guidelines, and the limits contained in Section 21083.2 of the PRC do not apply.

3. If an archaeological site does not meet the criteria defined in subsection (a), but does meet the definition of a unique archaeological resource in Section 21803.2 of the PRC, the site shall be treated in accordance with the provisions of Section 21083.2. The time and cost limitations described in PRC Section 21083.2 (c-f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.
4. If an archaeological resource is neither a unique archaeological nor historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report, if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5 (d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

- (d) When an initial study identifies the existence of, or the probable likelihood of, Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the NAHC as provided in PRC SS5097.98. The applicant may develop an agreement for treating or disposing of, with appropriate dignity, the human remains and any items associated with Native American burials with the appropriate Native Americans as identified by the NAHC. Action implementing such an agreement is exempt from:
  - 1) The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5).
  - 2) The requirements of CEQA and the Coastal Act.



## 2.0 **RESEARCH DESIGN**

The primary goal of the research design is to attempt to understand the way in which humans have used the land and resources within the project through time, as well as to aid in the determination of resource significance. For the current project, the study area under investigation is southeastern Los Angeles County. The scope of work for the cultural resources study conducted for the 1270 Arrow Highway Project included an archaeological study of the approximately 79-acre APE. Given the area involved, disturbances to the property, and the limited presence of nearby cultural resources, the research design for this project was focused upon realistic study options. Since the main objective of the investigation was to identify the presence of and potential impacts to cultural resources, the goal here is not necessarily to answer wide-reaching theories regarding the development of early southern California, but to investigate the role and importance of identified resources. Nevertheless, the assessment of the significance of a resource must take into consideration a variety of characteristics, as well as the ability of a resource to address regional research topics and issues.

Although elementary resource evaluation programs are limited in terms of the amount of information available, several specific research questions were developed that could be used to guide the initial investigations of any observed cultural resources. The following research questions take into account the size and location of the project discussed above.

### ***Research Questions:***

- Can located cultural resources be associated with a specific time period, population, or individual?
- Do the types of any located cultural resources allow a site activity/function to be determined from a preliminary investigation? What are the site activities? What is the site function? What resources were exploited?
- How do located sites compare to others reported from different surveys conducted in the area?
- How do located sites fit existing models of settlement and subsistence for valley environments of the region?

### ***Data Needs***

At the Phase I level, the principal research objective is a generalized investigation of changing settlement patterns in both the prehistoric and historic periods within the study area. The overall goal is to understand settlement and resource procurement patterns of the project area occupants. Therefore, adequate information on site function, context, and chronology from an archaeological perspective is essential for the investigation. This study was undertaken with the following primary research goals in mind:

- 1) To identify cultural resources occurring within the project;
- 2) To determine, if possible, site type and function, context of the resource(s), and chronological placement of each cultural resource identified;
- 3) To place each cultural resource identified within a regional perspective; and
- 4) To provide recommendations for the treatment of each cultural resource identified.

### **3.0 RECOMMENDATIONS**

The cultural resources study for the 1270 Arrow Highway Project was negative for the presence of cultural resources. The SCCIC records search indicates that five cultural resources, all historic, have been recorded within a one-mile radius of the project, none of which are within the APE. The SCCIC search also indicated that 23 studies have been conducted within one mile of the project.

Property research shows that the project has been heavily disturbed since the mid-twentieth century. Although originally a generally level property located within the San Gabriel River floodplain, today, elevations on the property are much lower and fluctuate from 410 to 260 feet AMSL. Further, the use of the property for the disposal of construction material has filled in some of the previously excavated gravel pits. Therefore, as the APE mainly consists of a series of excavated pits and areas that have been filled with modern building material, almost all of the property's natural ground surface has been removed or heavily disturbed, with most of the property now far below the original floodplain elevation. Although cultural resources are present within a one-mile radius of the project, they are mostly associated with historic transmission lines and none are prehistoric sites. The location of the APE, originally within the San Gabriel River floodplain, combined with the extensive disturbance to the property, strongly indicates that if cultural resources were ever located within the project they have been removed by the continued excavations on the property. Given the historic and prehistoric settlement of the region, disturbances to the property, and the low frequency of cultural resources known to be surrounding the project APE, the potential for archaeological discoveries on the property is extremely low.

The archaeological study was completed in accordance with City of Irwindale environmental guidelines and CEQA significance evaluation criteria. Based upon the documentation of extensive past ground disturbance through the historic land-use of the property, the absence of recorded cultural resources within the project boundaries, and the limited number of known resources within the general area, there is little to no potential for cultural resources to be present/disturbed by the proposed project. Therefore, site-specific mitigation measures will not be required for this project, and no further archaeological study is recommended as a condition of permit approval.

#### **4.0 LIST OF PREPARERS AND ORGANIZATIONS CONTACTED**

The archaeological survey program for the 1270 Arrow Highway Project was directed by Principal Investigator Brian F. Smith. The report text was prepared by Andrew Garrison and Brian Smith. Kris Reinicke conducted the records search at the SCCIC at CSU Fullerton and created the report graphics. Technical editing and report production were conducted by Caitlin Foote with assistance from Elena Goralogia.

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**APPENDIX A**

**Resumes of Key Personnel**



# Brian F. Smith, MA

## Owner, Principal Investigator

Brian F. Smith and Associates, Inc.

14010 Poway Road • Suite A •

Phone: (858) 679-8218 • Fax: (858) 679-9896 • E-Mail: bsmith@bfsa-ca.com



## Education

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<b>Master of Arts, History, University of San Diego, California</b>	<b>1982</b>
<b>Bachelor of Arts, History, and Anthropology, University of San Diego, California</b>	<b>1975</b>

## Professional Memberships

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Society for California Archaeology

## Experience

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<b>Principal Investigator</b> <b>Brian F. Smith and Associates, Inc.</b>	<b>1977–Present</b> <b>Poway, California</b>
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Brian F. Smith is the owner and principal historical and archaeological consultant for Brian F. Smith and Associates. Over the past 32 years, he has conducted over 2,500 cultural resource studies in California, Arizona, Nevada, Montana, and Texas. These studies include every possible aspect of archaeology from literature searches and large-scale surveys to intensive data recovery excavations. Reports prepared by Mr. Smith have been submitted to all facets of local, state, and federal review agencies, including the US Army Corps of Engineers, the Bureau of Land Management, the Bureau of Reclamation, the Department of Defense, and the Department of Homeland Security. In addition, Mr. Smith has conducted studies for utility companies (Sempra Energy) and state highway departments (CalTrans).

## Professional Accomplishments

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These selected major professional accomplishments represent research efforts that have added significantly to the body of knowledge concerning the prehistoric life ways of cultures once present in the Southern California area and historic settlement since the late 18<sup>th</sup> century. Mr. Smith has been principal investigator on the following select projects, except where noted.

**Downtown San Diego Mitigation and Monitoring Reporting Programs:** Large numbers of downtown San Diego mitigation and monitoring projects submitted to the Centre City Development Corporation, some of which included Strata (2008), Hotel Indigo (2008), Lofts at 707 10<sup>th</sup> Avenue Project (2007), Breeza (2007), Bayside at the Embarcadero (2007), Aria (2007), Icon (2007), Vantage Pointe (2007), Aperture (2007), Sapphire Tower (2007), Lofts at 655 Sixth Avenue (2007), Metrowork (2007), The Legend (2006), The Mark (2006), Smart Corner (2006), Lofts at 677 7<sup>th</sup> Avenue (2005), Aloft on Cortez Hill (2005), Front and

Beech Apartments (2003), Bella Via Condominiums (2003), Acqua Vista Residential Tower (2003), Northblock Lofts (2003), Westin Park Place Hotel (2001), Parkloft Apartment Complex (2001), Renaissance Park (2001), and Laurel Bay Apartments (2001).

Archaeology at the Padres Ballpark: Involved the analysis of historic resources within a seven-block area of the "East Village" area of San Diego, where occupation spanned a period from the 1870s to the 1940s. Over a period of two years, BFSA recovered over 200,000 artifacts and hundreds of pounds of metal, construction debris, unidentified broken glass, and wood. Collectively, the Ballpark Project and the other downtown mitigation and monitoring projects represent the largest historical archaeological program anywhere in the country in the past decade (2000-2007).

4S Ranch Archaeological and Historical Cultural Resources Study: Data recovery program consisted of the excavation of over 2,000 square meters of archaeological deposits that produced over one million artifacts, containing primarily prehistoric materials. The archaeological program at 4S Ranch is the largest archaeological study ever undertaken in the San Diego County area and has produced data that has exceeded expectations regarding the resolution of long-standing research questions and regional prehistoric settlement patterns.

Charles H. Brown Site: Attracted international attention to the discovery of evidence of the antiquity of man in North America. Site located in Mission Valley, in the city of San Diego.

Del Mar Man Site: Study of the now famous Early Man Site in Del Mar, California, for the San Diego Science Foundation and the San Diego Museum of Man, under the direction of Dr. Spencer Rogers and Dr. James R. Moriarty.

Old Town State Park Projects: Consulting Historical Archaeologist. Projects completed in the Old Town State Park involved development of individual lots for commercial enterprises. The projects completed in Old Town include Archaeological and Historical Site Assessment for the Great Wall Cafe (1992), Archaeological Study for the Old Town Commercial Project (1991), and Cultural Resources Site Survey at the Old San Diego Inn (1988).

Site W-20, Del Mar, California: A two-year-long investigation of a major prehistoric site in the Del Mar area of the city of San Diego. This research effort documented the earliest practice of religious/ceremonial activities in San Diego County (circa 6,000 years ago), facilitated the projection of major non-material aspects of the La Jolla Complex, and revealed the pattern of civilization at this site over a continuous period of 5,000 years. The report for the investigation included over 600 pages, with nearly 500,000 words of text, illustrations, maps, and photographs documenting this major study.

City of San Diego Reclaimed Water Distribution System: A cultural resource study of nearly 400 miles of pipeline in the city and county of San Diego.

Master Environmental Assessment Project, City of Poway: Conducted for the City of Poway to produce a complete inventory of all recorded historic and prehistoric properties within the city. The information was used in conjunction with the City's General Plan Update to produce a map matrix of the city showing areas of high, moderate, and low potential for the presence of cultural resources. The effort also included the development of the City's Cultural Resource Guidelines, which were adopted as City policy.

Draft of the City of Carlsbad Historical and Archaeological Guidelines: Contracted by the City of Carlsbad to produce the draft of the City's historical and archaeological guidelines for use by the Planning Department of the City.

The Mid-Bayfront Project for the City of Chula Vista: Involved a large expanse of undeveloped agricultural land situated between the railroad and San Diego Bay in the northwestern portion of the city. The study included the analysis of some potentially historic features and numerous prehistoric sites.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Audie Murphy Ranch, Riverside County, California: Project manager/director of the investigation of 1,113.4 acres and 43 sites, both prehistoric and historic—including project coordination; direction of field crews; evaluation of sites for significance based on County of Riverside and CEQA guidelines; assessment of cupule, pictograph, and rock shelter sites, co-authoring of cultural resources project report. February-September 2002.

Cultural Resources Evaluation of Sites Within the Proposed Development of the Otay Ranch Village 13 Project, San Diego County, California: Project manager/director of the investigation of 1,947 acres and 76 sites, both prehistoric and historic—including project coordination and budgeting; direction of field crews; assessment of sites for significance based on County of San Diego and CEQA guidelines; co-authoring of cultural resources project report. May-November 2002.

Cultural Resources Survey for the Remote Video Surveillance Project, El Centro Sector, Imperial County: Project manager/director for a survey of 29 individual sites near the U.S./Mexico Border for proposed video surveillance camera locations associated with the San Diego Border barrier Project—project coordination and budgeting; direction of field crews; site identification and recordation; assessment of potential impacts to cultural resources; meeting and coordinating with U.S. Army Corps of Engineers, U.S. Border Patrol, and other government agencies involved; co-authoring of cultural resources project report. January, February, and July 2002.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee West GPA, Riverside County, California: Project manager/director of the investigation of nine sites, both prehistoric and historic—including project coordination and budgeting; direction of field crews; assessment of sites for significance based on County of Riverside and CEQA guidelines; historic research; co-authoring of cultural resources project report. January-March 2002.

Mitigation of An Archaic Cultural Resource for the Eastlake III Woods Project for the City of Chula Vista, California: Project archaeologist/ director—including direction of field crews; development and completion of data recovery program including collection of material for specialized faunal and botanical analyses; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; co-authoring of cultural resources project report, in prep. September 2001-March 2002.

Cultural Resources Survey and Test of Sites Within the Proposed French Valley Specific Plan/EIR, Riverside County, California: Project manager/director of the investigation of two prehistoric and three historic sites—including project coordination and budgeting; survey of project area; Native American consultation; direction of field crews; assessment of sites for significance based on CEQA guidelines; cultural resources project report in prep. July-August 2000.

Cultural Resources Survey and Test of Sites Within the Proposed Lawson Valley Project, San Diego County, California: Project manager/director of the investigation of 28 prehistoric and two historic sites—including project coordination; direction of field crews; assessment of sites for significance based on CEQA guidelines; cultural resources project report in prep. July-August 2000.

Cultural Resource Survey and Geotechnical Monitoring for the Mohyi Residence Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—including project coordination; field survey; assessment of parcel for potentially buried cultural deposits; monitoring of geotechnical borings; authoring of cultural resources project report. Brian F. Smith and Associates, San Diego, California. June 2000.

Enhanced Cultural Resource Survey and Evaluation for the Prewitt/Schmucker/Cavadias Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—including project coordination; direction of field crews; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. June 2000.

Cultural Resources Survey and Test of Sites Within the Proposed Development of the Menifee Ranch, Riverside County, California: Project manager/director of the investigation of one prehistoric and five historic sites—included project coordination and budgeting; direction of field crews; feature recordation; historic structure assessments; assessment of sites for significance based on CEQA guidelines; historic research; co-authoring of cultural resources project report. February-June 2000.

Salvage Mitigation of a Portion of the San Diego Presidio Identified During Water Pipe Construction for the City of San Diego, California: Project archaeologist/director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Tyrian 3 Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Lamont 5 Project, Pacific Beach, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. April 2000.

Enhanced Cultural Resource Survey and Evaluation for the Reiss Residence Project, La Jolla, California: Project manager/director of the investigation of a single-dwelling parcel—included project coordination; assessment of parcel for potentially buried cultural deposits; authoring of cultural resources project report. March-April 2000.

Salvage Mitigation of a Portion of Site SDM-W-95 (CA-SDI-211) for the Poinsettia Shores Santalina Development Project and Caltrans, Carlsbad, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program; management of artifact collections cataloging and curation; data synthesis and authoring of cultural resources project report in prep. December 1999-January 2000.

Survey and Testing of Two Prehistoric Cultural Resources for the Airway Truck Parking Project, Otay Mesa, California: Project archaeologist/director—included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; authoring of cultural resources project report, in prep. December 1999-January 2000.

Cultural Resources Phase I and II Investigations for the Tin Can Hill Segment of the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for a survey and testing of a prehistoric quarry site along the border—NRHP eligibility assessment; project coordination and budgeting; direction of field crews; feature recordation; meeting and coordinating with U.S. Army Corps of Engineers; co-authoring of cultural resources project report. December 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Westview High School Project for the City of San Diego, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program including collection of material for specialized faunal and botanical analyses; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; co-authoring of cultural resources project report, in prep. October 1999-January 2000.

Mitigation of a Prehistoric Cultural Resource for the Otay Ranch SPA-One West Project for the City of Chula Vista, California: Project archaeologist/director—included direction of field crews; development of data recovery program; management of artifact collections cataloging and curation; assessment of

site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report, in prep. September 1999-January 2000.

Monitoring of Grading for the Herschel Place Project, La Jolla, California: Project archaeologist/monitor—included monitoring of grading activities associated with the development of a single-dwelling parcel. September 1999.

Survey and Testing of a Historic Resource for the Osterkamp Development Project, Valley Center, California: Project archaeologist/ director—included direction of field crews; development and completion of data recovery program; budget development; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Testing of a Prehistoric Cultural Resource for the Proposed College Boulevard Alignment Project, Carlsbad, California: Project manager/director —included direction of field crews; development and completion of testing recovery program; assessment of site for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report, in prep. July-August 1999.

Survey and Evaluation of Cultural Resources for the Palomar Christian Conference Center Project, Palomar Mountain, California: Project archaeologist—included direction of field crews; assessment of sites for significance based on CEQA guidelines; management of artifact collections cataloging and curation; data synthesis; authoring of cultural resources project report. July-August 1999.

Survey and Evaluation of Cultural Resources at the Village 2 High School Site, Otay Ranch, City of Chula Vista, California: Project manager/director —management of artifact collections cataloging and curation; assessment of site for significance based on CEQA guidelines; data synthesis; authoring of cultural resources project report. July 1999.

Cultural Resources Phase I, II, and III Investigations for the Immigration and Naturalization Services Triple Fence Project Along the International Border, San Diego County, California: Project manager/director for the survey, testing, and mitigation of sites along border—supervision of multiple field crews, NRHP eligibility assessments, Native American consultation, contribution to Environmental Assessment document, lithic and marine shell analysis, authoring of cultural resources project report. August 1997-January 2000.

Phase I, II, and III Investigations for the Scripps Poway Parkway East Project, Poway California: Project archaeologist/project director—included recordation and assessment of multicomponent prehistoric and historic sites; direction of Phase II and III investigations; direction of laboratory analyses including prehistoric and historic collections; curation of collections; data synthesis; coauthorship of final cultural resources report. February 1994; March-September 1994; September-December 1995.

Archaeological Evaluation of Cultural Resources Within the Proposed Corridor for the San Elijo Water Reclamation System Project, San Elijo, California: Project manager/director —test excavations; direction of artifact identification and analysis; graphics production; coauthorship of final cultural resources report. December 1994-July 1995.

Evaluation of Cultural Resources for the Environmental Impact Report for the Rose Canyon Trunk Sewer Project, San Diego, California: Project manager/Director —direction of test excavations; identification and analysis of prehistoric and historic artifact collections; data synthesis; co-authorship of final cultural resources report, San Diego, California. June 1991-March 1992.



## Reports/Papers

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Author, coauthor, or contributor to over 2,500 cultural resources management publications, a selection of which are presented below.

- 2015 An Archaeological/Historical Study for the Safari Highlands Ranch Project, City of Escondido, County of San Diego.
- 2015 A Phase I and II Cultural Resources Assessment for the Decker Parcels II Project, Planning Case No. 36962, Riverside County, California.
- 2015 A Phase I and II Cultural Resources Assessment for the Decker Parcels I Project, Planning Case No. 36950, Riverside County, California.
- 2015 Cultural Resource Data Recovery and Mitigation Monitoring Program for Site SDI-10,237 Locus F, Everly Subdivision Project, El Cajon, California.
- 2015 Phase I Cultural Resource Survey for the Woodward Street Senior Housing Project, City of San Marcos, California (APN 218-120-31).
- 2015 An Updated Cultural Resource Survey for the Box Springs Project (TR 33410), APNs 255-230-010, 255-240-005, 255-240-006, and Portions of 257-180-004, 257-180-005, and 257-180-006.
- 2015 A Phase I and II Cultural Resource Report for the Lake Ranch Project, TR 36730, Riverside County, California.
- 2015 A Phase II Cultural Resource Assessment for the Munro Valley Solar Project, Inyo County, California.
- 2014 Cultural Resources Monitoring Report for the Diamond Valley Solar Project, Community of Winchester, County of Riverside.
- 2014 National Historic Preservation Act Section 106 Compliance for the Proposed Saddleback Estates Project, Riverside County, California.
- 2014 A Phase II Cultural Resource Evaluation Report for RIV-8137 at the Toscana Project, TR 36593, Riverside County, California.
- 2014 Cultural Resources Study for the Estates at Del Mar Project, City of Del Mar, San Diego, California (TTM 14-001).
- 2014 Cultural Resources Study for the Aliso Canyon Major Subdivision Project, Rancho Santa Fe, San Diego County, California.
- 2014 Cultural Resources Due Diligence Assessment of the Ocean Colony Project, City of Encinitas.
- 2014 A Phase I and Phase II Cultural Resource Assessment for the Citrus Heights II Project, TTM 36475, Riverside County, California.
- 2013 A Phase I Cultural Resource Assessment for the Modular Logistics Center, Moreno Valley, Riverside County, California.

- 2013 A Phase I Cultural Resources Survey of the Ivey Ranch Project, Thousand Palms, Riverside County, California.
- 2013 Cultural Resources Report for the Emerald Acres Project, Riverside County, California.
- 2013 A Cultural Resources Records Search and Review for the Pala Del Norte Conservation Bank Project, San Diego County, California.
- 2013 An Updated Phase I Cultural Resources Assessment for Tentative Tract Maps 36484 and 36485, Audie Murphy Ranch, City of Menifee, County of Riverside.
- 2013 El Centro Town Center Industrial Development Project (EDA Grant No. 07-01-06386); Result of Cultural Resource Monitoring.
- 2013 Cultural Resources Survey Report for the Renda Residence Project, 9521 La Jolla Farms Road, La Jolla, California.
- 2013 A Phase I Cultural Resource Study for the Ballpark Village Project, San Diego, California.
- 2013 Archaeological Monitoring and Mitigation Program, San Clemente Senior Housing Project, 2350 South El Camino Real, City of San Clemente, Orange County, California (CUP No. 06-065; APN-060-032-04).
- 2012 Mitigation Monitoring Report for the Los Peñasquitos Recycled Water Pipeline.
- 2012 Cultural Resources Report for Menifee Heights (Tract 32277).
- 2012 A Phase I Cultural Resource Study for the Altman Residence at 9696 La Jolla Farms Road, La Jolla, California 92037.
- 2012 Mission Ranch Project (TM 5290-1/MUP P87-036W3): Results of Cultural Resources Monitoring During Mass Grading.
- 2012 A Phase I Cultural Resource Study for the Payan Property Project, San Diego, California.
- 2012 Phase I Archaeological Survey of the Rieger Residence, 13707 Durango Drive, Del Mar, California 92014, APN 300-369-49.
- 2011 Mission Ranch Project (TM 5290-1/MUP P87-036W3): Results of Cultural Resources Monitoring During Mass Grading.
- 2011 Mitigation Monitoring Report for the 1887 Viking Way Project, La Jolla, California.
- 2011 Cultural Resource Monitoring Report for the Sewer Group 714 Project.
- 2011 Results of Archaeological Monitoring at the 10th Avenue Parking Lot Project, City of San Diego, California (APNs 534-194-02 and 03).
- 2011 Archaeological Survey of the Pelberg Residence for a Bulletin 560 Permit Application; 8335 Camino Del Oro; La Jolla, California 92037 APN 346-162-01-00 .
- 2011 A Cultural Resources Survey Update and Evaluation for the Robertson Ranch West Project and an Evaluation of National Register Eligibility of Archaeological sites for Sites for Section 106 Review (NHPA).
- 2011 Mitigation Monitoring Report for the 43rd and Logan Project.

- 2011 Mitigation Monitoring Report for the Sewer Group 682 M Project, City of San Diego Project #174116.
- 2011 A Phase I Cultural Resource Study for the Nooren Residence Project, 8001 Calle de la Plata, La Jolla, California, Project No. 226965.
- 2011 A Phase I Cultural Resource Study for the Keating Residence Project, 9633 La Jolla Farms Road, La Jolla, California 92037.
- 2010 Mitigation Monitoring Report for the 15th & Island Project, City of San Diego; APNs 535-365-01, 535-365-02 and 535-392-05 through 535-392-07.
- 2010 Archaeological Resource Report Form: Mitigation Monitoring of the Sewer and Water Group 772 Project, San Diego, California, W.O. Nos. 187861 and 178351.
- 2010 Pottery Canyon Site Archaeological Evaluation Project, City of San Diego, California, Contract No. H105126.
- 2010 Archaeological Resource Report Form: Mitigation Monitoring of the Racetrack View Drive Project, San Diego, California; Project No. 163216.
- 2010 A Historical Evaluation of Structures on the Butterfield Trails Property.
- 2010 Historic Archaeological Significance Evaluation of 1761 Haydn Drive, Encinitas, California (APN 260-276-07-00).
- 2010 Results of Archaeological Monitoring of the Heller/Nguyen Project, TPM 06-01, Poway, California.
- 2010 Cultural Resource Survey and Evaluation Program for the Sunday Drive Parcel Project, San Diego County, California, APN 189-281-14.
- 2010 Archaeological Resource Report Form: Mitigation Monitoring of the Emergency Garnet Avenue Storm Drain Replacement Project, San Diego, California, Project No. B10062
- 2010 An Archaeological Study for the 1912 Spindrift Drive Project
- 2009 Cultural Resource Assessment of the North Ocean Beach Gateway Project City of San Diego #64A-003A; Project #154116.
- 2009 Archaeological Constraints Study of the Morgan Valley Wind Assessment Project, Lake County, California.
- 2008 Results of an Archaeological Review of the Helen Park Lane 3.1-acre Property (APN 314-561-31), Poway, California.
- 2008 Archaeological Letter Report for a Phase I Archaeological Assessment of the Valley Park Condominium Project, Ramona, California; APN 282-262-75-00.
- 2007 Archaeology at the Ballpark. Brian F. Smith and Associates, San Diego, California. Submitted to the Centre City Development Corporation.
- 2007 Result of an Archaeological Survey for the Villages at Promenade Project (APNs 115-180-007-3, 115-180-049-1, 115-180-042-4, 115-180-047-9) in the City of Corona, Riverside County.
- 2007 Monitoring Results for the Capping of Site CA-SDI-6038/SDM-W-5517 within the Katzer Jamul Center Project; P00-017.
- 2006 Archaeological Assessment for The Johnson Project (APN 322-011-10), Poway, California.

- 2005 Results of Archaeological Monitoring at the El Camino Del Teatro Accelerated Sewer Replacement Project (Bid No. K041364; WO # 177741; CIP # 46-610.6.
- 2005 Results of Archaeological Monitoring at the Baltazar Draper Avenue Project (Project No. 15857; APN: 351-040-09).
- 2004 TM 5325 ER #03-14-043 Cultural Resources.
- 2004 An Archaeological Survey and an Evaluation of Cultural Resources at the Salt Creek Project. Report on file at Brian F. Smith and Associates.
- 2003 An Archaeological Assessment for the Hidden Meadows Project, San Diego County, TM 5174, Log No. 99-08-033. Report on file at Brian F. Smith and Associates.
- 2003 An Archaeological Survey for the Manchester Estates Project, Coastal Development Permit #02-009, Encinitas, California. Report on file at Brian F. Smith and Associates.
- 2003 Archaeological Investigations at the Manchester Estates Project, Coastal Development Permit #02-009, Encinitas, California. Report on file at Brian F. Smith and Associates.
- 2003 Archaeological Monitoring of Geological Testing Cores at the Pacific Beach Christian Church Project. Report on file at Brian F. Smith and Associates.
- 2003 San Juan Creek Drilling Archaeological Monitoring. Report on file at Brian F. Smith and Associates.
- 2003 Evaluation of Archaeological Resources Within the Spring Canyon Biological Mitigation Area, Otay Mesa, San Diego County, California. Brian F. Smith and Associates, San Diego, California.
- 2002 An Archaeological/Historical Study for the Otay Ranch Village 13 Project (et al.). Brian F. Smith and Associates, San Diego, California.
- 2002 An Archaeological/Historical Study for the Audie Murphy Ranch Project (et al.). Brian F. Smith and Associates, San Diego, California.
- 2002 Results of an Archaeological Survey for the Remote Video Surveillance Project, El Centro Sector, Imperial County, California. Brian F. Smith and Associates, San Diego, California.
- 2002 A Cultural Resources Survey and Evaluation for the Proposed Robertson Ranch Project, City of Carlsbad. Brian F. Smith and Associates, San Diego, California.
- 2002 Archaeological Mitigation of Impacts to Prehistoric Site SDI-7976 for the Eastlake III Woods Project, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.
- 2002 An Archaeological/Historical Study for Tract No. 29777, Menifee West GPA Project, Perris Valley, Riverside County. Brian F. Smith and Associates, San Diego, California.
- 2002 An Archaeological/Historical Study for Tract No. 29835, Menifee West GPA Project, Perris Valley, Riverside County. Brian F. Smith and Associates, San Diego, California.
- 2001 An Archaeological Survey and Evaluation of a Cultural Resource for the Moore Property, Poway. Brian F. Smith and Associates, San Diego, California.
- 2001 An Archaeological Report for the Mitigation, Monitoring, and Reporting Program at the Water and Sewer Group Job 530A, Old Town San Diego. Brian F. Smith and Associates, San Diego, California.

- 2001 A Cultural Resources Impact Survey for the High Desert Water District Recharge Site 6 Project, Yucca Valley. Brian F. Smith and Associates, San Diego, California.
- 2001 Archaeological Mitigation of Impacts to Prehistoric Site SDI-13,864 at the Otay Ranch SPA-One West Project. Brian F. Smith and Associates, San Diego, California.
- 2001 A Cultural Resources Survey and Site Evaluations at the Stewart Subdivision Project, Moreno Valley, County of San Diego. Brian F. Smith and Associates, San Diego, California.
- 2000 An Archaeological/Historical Study for the French Valley Specific Plan/EIR, French Valley, County of Riverside. Brian F. Smith and Associates, San Diego, California.
- 2000 Results of an Archaeological Survey and the Evaluation of Cultural Resources at The TPM#24003–Lawson Valley Project. Brian F. Smith and Associates, San Diego, California.
- 2000 Archaeological Mitigation of Impacts to Prehistoric Site SDI-5326 at the Westview High School Project for the Poway Unified School District. Brian F. Smith and Associates, San Diego, California.
- 2000 An Archaeological/Historical Study for the Meniffee Ranch Project. Brian F. Smith and Associates, San Diego, California.
- 2000 An Archaeological Survey and Evaluation of Cultural Resources for the Bernardo Mountain Project, Escondido, California. Brian F. Smith and Associates, San Diego, California.
- 2000 A Cultural Resources Impact Survey for the Nextel Black Mountain Road Project, San Diego, California. Brian F. Smith and Associates, San Diego, California.
- 2000 A Cultural Resources Impact Survey for the Rancho Vista Project, 740 Hilltop Drive, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.
- 2000 A Cultural Resources Impact Survey for the Poway Creek Project, Poway, California. Brian F. Smith and Associates, San Diego, California.
- 2000 Cultural Resource Survey and Geotechnical Monitoring for the Mohyi Residence Project. Brian F. Smith and Associates, San Diego, California.
- 2000 Enhanced Cultural Resource Survey and Evaluation for the Prewitt/Schmucker/ Cavadias Project. Brian F. Smith and Associates, San Diego, California.
- 2000 Enhanced Cultural Resource Survey and Evaluation for the Lamont 5 Project. Brian F. Smith and Associates, San Diego, California.
- 2000 Salvage Excavations at Site SDM-W-95 (CA-SDI-211) for the Poinsettia Shores Santalina Development Project, Carlsbad, California. Brian F. Smith and Associates, San Diego, California.
- 2000 Enhanced Cultural Resource Survey and Evaluation for the Reiss Residence Project, La Jolla, California. Brian F. Smith and Associates, San Diego, California.
- 2000 Enhanced Cultural Resource Survey and Evaluation for the Tyrian 3 Project, La Jolla, California. Brian F. Smith and Associates, San Diego, California.
- 2000 A Report for an Archaeological Evaluation of Cultural Resources at the Otay Ranch Village Two SPA, Chula Vista, California. Brian F. Smith and Associates, San Diego, California.
- 2000 An Archaeological Evaluation of Cultural Resources for the Airway Truck Parking Project, Otay Mesa, County of San Diego. Brian F. Smith and Associates, San Diego, California.



- 2000 Results of an Archaeological Survey and Evaluation of a Resource for the Tin Can Hill Segment of the Immigration and Naturalization and Immigration Service Border Road, Fence, and Lighting Project, San Diego County, California. Brian F. Smith and Associates, San Diego, California.
- 1999 An Archaeological Survey of the Home Creek Village Project, 4600 Block of Home Avenue, San Diego, California. Brian F. Smith and Associates, San Diego, California.
- 1999 An Archaeological Survey for the Sgobassi Lot Split, San Diego County, California. Brian F. Smith and Associates, San Diego, California.
- 1999 An Evaluation of Cultural Resources at the Otay Ranch Village 11 Project. Brian F. Smith and Associates, San Diego, California.
- 1999 An Archaeological/Historical Survey and Evaluation of a Cultural Resource for The Osterkamp Development Project, Valley Center, California. Brian F. Smith and Associates, San Diego, California.
- 1999 An Archaeological Survey and Evaluation of Cultural Resources for the Palomar Christian Conference Center Project, Palomar Mountain, California. Brian F. Smith and Associates, San Diego, California.
- 1999 An Archaeological Survey and Evaluation of a Cultural Resource for the Proposed College Boulevard Alignment Project. Brian F. Smith and Associates, San Diego, California.
- 1999 Results of an Archaeological Evaluation for the Anthony's Pizza Acquisition Project in Ocean Beach, City of San Diego (with L. Pierson and B. Smith). Brian F. Smith and Associates, San Diego, California.
- 1996 An Archaeological Testing Program for the Scripps Poway Parkway East Project. Brian F. Smith and Associates, San Diego, California.
- 1995 Results of a Cultural Resources Study for the 4S Ranch. Brian F. Smith and Associates, San Diego, California.
- 1995 Results of an Archaeological Evaluation of Cultural Resources Within the Proposed Corridor for the San Elijo Water Reclamation System. Brian F. Smith and Associates, San Diego, California.
- 1994 Results of the Cultural Resources Mitigation Programs at Sites SDI-11,044/H and SDI-12,038 at the Salt Creek Ranch Project. Brian F. Smith and Associates, San Diego, California.
- 1993 Results of an Archaeological Survey and Evaluation of Cultural Resources at the Stallion Oaks Ranch Project. Brian F. Smith and Associates, San Diego, California.
- 1992 Results of an Archaeological Survey and the Evaluation of Cultural Resources at the Ely Lot Split Project. Brian F. Smith and Associates, San Diego, California.
- 1991 The Results of an Archaeological Study for the Walton Development Group Project. Brian F. Smith and Associates, San Diego, California.

# Andrew J. Garrison, M.A., RPA

## Senior Project Archaeologist

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## Education

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<b>Master of Arts, Public History, University of California, Riverside</b>	<b>2009</b>
<b>Bachelor of Science, Anthropology, University of California, Riverside</b>	<b>2005</b>
<b>Bachelor of Arts, History, University of California, Riverside</b>	<b>2005</b>

## Professional Memberships

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Register of Professional Archaeologists  
Society for California Archaeology  
Society for American Archaeology  
California Council for the Promotion of History

Society of Primitive Technology  
Lithic Studies Society  
California Preservation Foundation  
Pacific Coast Archaeological Society

## Experience

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### **Senior Project Archaeologist Brian F. Smith and Associates, Inc.**

**June 2017–Present  
Poway, California**

Project management of all phases of archaeological investigations for local, state, and federal agencies including National Register of Historic Places (NRHP) and California Environmental Quality Act (CEQA) level projects interacting with clients, sub-consultants, and lead agencies. Supervise and perform fieldwork including archaeological survey, monitoring, site testing, comprehensive site records checks, and historic building assessments. Perform and oversee technological analysis of prehistoric lithic assemblages. Author or co-author cultural resource management reports submitted to private clients and lead agencies.

### **Senior Archaeologist and GIS Specialist Scientific Resource Surveys, Inc.**

**2009–2017  
Orange, California**

Served as Project Archaeologist or Principal Investigator on multiple projects, including archaeological monitoring, cultural resource surveys, test excavations, and historic building assessments. Directed projects from start to finish, including budget and personnel hours proposals, field and laboratory direction, report writing, technical editing, Native American consultation, and final report submittal. Oversaw all GIS projects including data collection, spatial analysis, and map creation.

### **Preservation Researcher City of Riverside Modernism Survey**

**2009  
Riverside, California**

Completed DPR Primary, District, and Building, Structure and Object Forms for five sites for a grant-funded project to survey designated modern architectural resources within the City of Riverside.

**Information Officer**  
**Eastern Information Center (EIC), University of California, Riverside**

**2005, 2008–2009**  
**Riverside, California**

Processed and catalogued restricted and unrestricted archaeological and historical site record forms. Conducted research projects and records searches for government agencies and private cultural resource firms.

## Reports/Papers

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- 2017 A Phase I Cultural Resources Assessment for the Marbella Villa Project, City of Desert Hot Springs, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2017 Phase I Cultural Resources Survey for TTM 37109, City of Jurupa Valley, County of Riverside. Brian F. Smith and Associates, Inc.
- 2017 A Phase I Cultural Resources Survey for the Jefferson & Ivy Project, City of Murrieta, California. Brian F. Smith and Associates, Inc.
- 2017 A Phase I Cultural Resources Assessment for the Nuevo Dollar General Store Project, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2017 A Phase I Cultural Resource Study for the Westmont Project, Encinitas, California. Brian F. Smith and Associates, Inc.
- 2017 A Phase I Cultural Resources Assessment for the Winchester Dollar General Store Project, Riverside County, California. Brian F. Smith and Associates, Inc.
- 2017 Phase I Cultural Resource Assessment for TTM 31810 (42.42 acres) Predico Properties Olive Grove Project. Scientific Resource Surveys, Inc.
- 2016 John Wayne Airport Jet Fuel Pipeline and Tank Farm Archaeological Monitoring Plan. Scientific Resource Surveys, Inc. On file at the County of Orange, California.
- 2016 Phase I Cultural Resources Assessment: All Star Super Storage City of Menifee Project, 2015-156. Scientific Resource Surveys, Inc. On file at the Eastern Information Center, University of California, Riverside.
- 2016 Historic Resource Assessment for 220 South Batavia Street, Orange, CA 92868 Assessor's Parcel Number 041-064-4. Scientific Resource Surveys, Inc. Submitted to the City of Orange as part of Mills Act application.
- 2015 Historic Resource Report: 807-813 Harvard Boulevard, Los Angeles. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.
- 2015 Exploring a Traditional Rock Cairn: Test Excavation at CA-SDI-13/RBLI-26: The Rincon Indian Reservation, San Diego County, California. Scientific Resource Surveys, Inc.
- 2015 Class III Scientific Resource Surveys, Inc. Survey for The Lynx Cat Granite Quarry and Water Valley Road Widening Project County of San Bernardino, California, Near the Community of Hinkley. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.

- 2014 Archaeological Phase I: Cultural Resource Survey of the South West Quadrant of Fairview Park, Costa Mesa. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.
- 2014 Archaeological Monitoring Results: The New Los Angeles Federal Courthouse. Scientific Resource Surveys, Inc. On file at the South Central Coastal Information Center, California State University, Fullerton.
- 2012 Bolsa Chica Archaeological Project Volume 7, Technological Analysis of Stone Tools, Lithic Technology at Bolsa Chica: Reduction Maintenance and Experimentation. Scientific Resource Surveys, Inc.
- 2010 Phase II Cultural Resources Report Site CA=RIV-2160 PM No. 35164. Scientific Resource Surveys, Inc. On file at the Eastern Information Center, University of California, Riverside.
- 2009 Riverside Modernism Context Survey, contributing author. Available online at the City of Riverside.

## Presentations

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- 2017 "Repair and Replace: Lithic Production Behavior as Indicated by the Debitage Assemblage from CA-MRP-283 the Hackney Site." Presented at the Society for California Archaeology Annual Meeting, Fish Camp, California.
- 2016 "Bones, Stones, and Shell at Bolsa Chica: A Ceremonial Relationship?" Presented at the Society for California Archaeology Annual Meeting, Ontario, California.
- 2016 "Markers of Time: Exploring Transitions in the Bolsa Chica Assemblage." Presented at the Society for California Archaeology Annual Meeting, Ontario, California.
- 2016 "Dating Duress: Understanding Prehistoric Climate Change at Bolsa Chica." Presented at the Society for California Archaeology Annual Meeting, Ontario, California.
- 2015 "Successive Cultural Phasing Of Prehistoric Northern Orange County, California." Presented at the Society for California Archaeology Annual Meeting, Redding, California.
- 2015 "Southern California Cogged Stone Replication: Experimentation and Results." Presented at the Society for California Archaeology Annual Meeting, Redding, California.
- 2015 "Prehistoric House Keeping: Lithic Analysis of an Intermediate Horizon House Pit." Presented at the Society for California Archaeology Annual Meeting, Redding, California.
- 2015 "Pits and Privies: The Use and Disposal of Artifacts from Historic Los Angeles." Presented at the Society for California Archaeology Annual Meeting, Redding, California.
- 2015 "Grooving in the Past: A Demonstration of the Manufacturing of OGR beads and a look at Past SRS, Inc. Replicative Studies." Demonstration of experimental manufacturing techniques at the January meeting of The Pacific Coast Archaeological Society, Irvine, California.

- 2014 "From Artifact to Replication: Examining *Olivella* Grooved Bead Manufacturing." Presented at the Society for California Archaeology Annual Meeting, Visalia, California.
- 2014 "New Discoveries from an Old Collection: Comparing Recently Identified OGR Beads to Those Previously Analyzed from the Encino Village Site." Presented at the Society for California Archaeology Annual Meeting, Visalia, California.
- 2012 Bolsa Chica Archaeology: Part Seven: Culture and Chronology. Lithic demonstration of experimental manufacturing techniques at the April meeting of The Pacific Coast Archaeological Society, Irvine, California.
- 2012 "Expedient Flaked Tools from Bolsa Chica: Exploring the Lithic Technological Organization." Presented at the Society for California Archaeology Annual Meeting, San Diego, California.
- 2012 "Utilitarian and Ceremonial Ground Stone Production at Bolsa Chica Identified Through Production Tools." Presented at the Society for California Archaeology Annual Meeting, San Diego, California.
- 2012 "Connecting Production Industries at Bolsa Chica: Lithic Reduction and Bead Manufacturing." Presented at the Society for California Archaeology Annual Meeting, San Diego, California.
- 2011 Bolsa Chica Archaeology: Part Four: Mesa Production Industries. Co-presenter at the April meeting of The Pacific Coast Archaeological Society, Irvine, California.
- 2011 "Hammerstones from Bolsa Chica and Their Relationship towards Site Interpretation." Presented at the Society for California Archaeology Annual Meeting, Rohnert Park, California.
- 2011 "Exploring Bipolar Reduction at Bolsa Chica: Debitage Analysis and Replication." Presented at the Society for California Archaeology Annual Meeting, Rohnert Park, California.



**APPENDIX B**

**Archaeological Records Search Results**

*(Deleted for Public Review; Bound Separately)*

**APPENDIX C**

**NAHC Sacred Lands File Search Results**

*(Deleted for Public Review; Bound Separately)*